

Exercise 1 Let $f(x) = \frac{1}{x}$.

(a) Compute $AV_{[1,2]}$.

$$AV_{[1,2]} = \boxed{-\frac{1}{2}}.$$

(b) Compute $AV_{[100,101]}$.

$$AV_{[100,101]} = \boxed{-\frac{1}{10100}}.$$
